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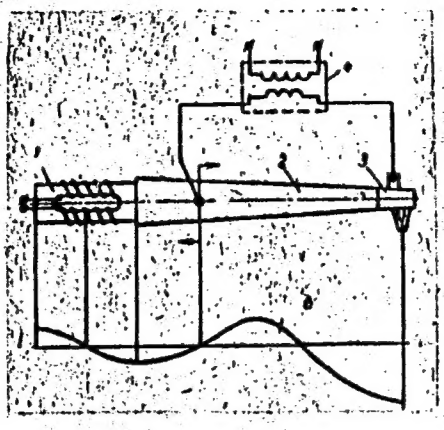

Fig. 1. Ultrasonic welder for microparts.
1 - generator; 2 - waveguide; 3 - welding section;
4 - transformer

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Card 2/2 UVR

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Grebtsov N.

MD

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B. S. Levine

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(Sunflowers)

IVANOV, K.I., red.; BELOTSERKOVSKIY, M.Yu., red.; BOLYSHEV, N.N., red.; GEDYMIN, A.V., red.; GLAZOVSKAYA, M.A., red.; GOLOVENKO, S.V., red.; ZVORYKIN, K.V., red.; IGNAT'YEV, G.M., red.; KUZNETSOV, G.A., red.; LEBEDEV, N.P., red.; LEBEDEV, P.N., red.; RAKITNIKOV, A.N., red.; SHEYNIN, L.B., red.; GREBTSOV, P.P., red.; YERMAKOV, M.S., tekhn. red.

[Accounting for and the evaluation of agricultural land] Uchet i otsenka sel'skokhoziaistvennykh zemel'. Pod red. K.I. Ivanova. Moskva, Izd-vo Mosk. univ., 1963. 385 p. (MIRA 16:7)

(Farm--Valuation) (Soils--Classification) (Cadasters)

VINOGRADOV, G.M., inzh.; GREBTSOV, P.P., red.; BASHMAKOV, G.M., tekhn. red.

[Breef handbook on the construction of rural medical institutions] Kratkii spravochnik po stroitel'stvu sel'skikh lechebnykh uchrezhdenii. Moskva, Medgiz, 1963. 95 p. (MIRA 16:12)

(HOSPITALS, RURAL—DESIGN AND CONSTRUCTION)

KALINOVSKIY, N.F.; LEVITANUS, A.D.; KHODULIN, Yu.A.; CHICHEV, Yu.I., red.; GREBTSOV, P.F., red.

[DT-20 tractor] Traktor DT-20. Moskva, Kolos, 1965. 254 p. (MIRA 18:8)

RUNOV, Boris Aleksandrovich; GREBTSOV, P.P., red.; MAKHOVA, N.N., tekhn. red.; SOKOLOVA, N.N., tekhn. red.

[Electrification of livestock farms in the U.S.A.] Elektromekhanizatsiia zhivotnovodcheskikh ferm v SShA. Moskva, Sel'khozizdat, 1963. 116 p. (MIRA 17:1)
(United States--Stock and stockbreeding--Equipment and supplies)
(United States--Electricity in agriculture)

CHIBISOV, I.V.; KONDRASHOV, A.D.; GREBTSOV, Ye.M.

Practice of using external water stemming to reduce the amount of dust in the air during blasting. Bor'ba s sil. 5:151-155 '62; (MIRA 16:5)

1. Shakhtinskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Blasting—Equipment and supplies) (Mine dusts—Prevention)

GREC, E.

RUNSTUK, Jaroslav, klin. asistent; GREC, Eduard, Vedouci lekar ZZS - GZ Brno-Kr. Pole

Improvement of care for workers. Lek listy, Brno 9 no.23:549-550 1 Dec 54.

1. Z I. vnitrni klinikh v Brne. Prednosta prof. MUDr M.Stejfa. 2. Ze zavodniho zdravnickeho strediska GZ - Brno-Kralovo Pole. Vedouci lekar: MUDr E.Grac.
(INDUSTRIAL HYGIENE, in Czech.)

GREC, Jadwiga; PIOTROPAWLOWSKA-WEINERT, Maria

On technics, indications and interpretation of pneumoencephalography in children. Pediat. Pol. 37 no.3:255-262 '62.

1. Z Zakladu Radiologii PAM w Szczecinie Kierownik: prof. dr med. C. Murczynski i z I Kliniki Pediatrycznej PAM w Szczecinie Kierownik: doc. dr med. J. Starkiewiczowa.

(VENTRICULOGRAPHY in inf & child)

BLEHOVA, J.; DANESOVA, J.; GREC, L.; HAJEK, F.; MATOUSEK, M.; VOJTIK, V.

Occurrence of phenylketonuria in Bohemia & Moravia. Cesk. pediat. 14 no.6:499-502 5 June 59.

1. Detska klinika hygienicke fakulty v Praze, prednosta prof. J. Pisarovicova-Ciskova Charita Praha, Stat. psych. lecebna Opava, Stat. psych. lecebna Dobrany, Stat. psych. lecebna Oparany. J.B., Praha 12, Srobarova 50.

(PHENYLPYRUVIC OLIGOPHRENIA, epidemiol.
in Czech. (Cz))

PASNIKOWSKI, Tadeusz; GREC, Stanislaw

Mandibular atrophy (Gorham's disease). Case report. Polski tygod. lek. 15 no.33:1277-1279 15 Ag '60.

1. Z Kliniki Otolaryngologicznej P.A.M. w Szczecinie; kierownik: prof. dr med. J.Taniewski i z Zakladu Radiologii P.A.M. kierownik: prof. dr med. Cz. Murczynski
(MANDIBLE dis.)
(ATROPHY case reports)

MURCZYNSKA, Wanda; GREC, Stefan; KRYGIER, Aleksandra; TUSTANOWSKI, Stanislaw; DWORAK, Wlodzimierz

Early immunological reactions in tuberculosis studied with bacilli labeled with the isotope P32. Gruzlica 29 no.10:841-890 O '61.

1. Z Zakladu Mikrobiologii PAM w Szczecinie Kierownik: prof. dr W.Murczynska Z Osrodka Izotopowego PAM w Szczecinie Kierownik: prof. dr C.Murczynski Z Zakladu Anatomii Patologicznej PAM w Szczecinie Kierownik: prof. dr K.Stojalowski.

(MYCOBACTERIUM TUBERCULOSIS) (PHOSPHORUS radioactive)
(TUBERCULIN REACTION)

MURCZYNSKI, Czesław MIKOSZA, Henryk, GREŚ, Stefan, SYPNIEWSKA, Maria, TUSTANOWSKI, Stanisław, NAROŻNIK, Kazimierz.

Use of radioactive [illegible] for the determination of pulmonary ventilation disorders. Gruźlica 31 no.2:101-[illegible] F'63

1. Z Zakładu Radiologii (Kierownik prof. dr. Cz. Murczyński) i z Zakładu Fizyki (Kierownik dr. H. Mikosza) PAM w Szczecinie.

*

DORO[illegible]YN[illegible]I, Jan; G[illegible]C, Stefan

Developmental defects of the lungs during infancy. Pediat. polska 32 no.8:875-884 Aug 57.

1. Z Kliniki Pediatrycznej P. A. M. w Szczecinie Kierownik: prof. dr med. B. Gornicki i z Zakladu Radiologii P. A. M. w Szczecinie Kierownik: prof. dr med. Cz Murczynski. Adres: Szczecin, ul. Unii Lubelskiej, Klinika Pediatryczna A. M.

(LUNGS, abnorm.
pathogen. mechanism & x-ray manifest. (Pol))

MURCZYNSKI, Czeslaw; MIKOSZA, Henryk; GREC, Stefan; SYPNIEWSKA, Maria; TUSTANOWSKI, Stanislaw; NAROZNIK, Kazimierz

Respiratory function tests with thulium-170. Pol. arch. med. wewnet. 34 no.6:732-735 '64

1. Z Zakladu Radiologii Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: prof. dr. Cz.Murczynski) i z Zakladu Fizyki Pomoskiej Akademii Medycznej w Szczecinie (Kierownik: dr. inz. H. Mikosza).

RADU, Vasile Gh.; ROGOJANU, Victor; GRECEA, Alexandrina; DAN, Florica

Dynamics of the Collembola fauna of a few kinds of soil and cultures in the vicinity of Cluj. Studii biol Cluj 11 no.2:277-301 '60. (EEAI 10:9)

1. Academia R.P.R.-Filiala Cluj, Centrul de cercetari biologice, Sectia de zoologie sistematica si ecologica. 2.Membru corespondent al Academiei R.P.R. (for Radu).

(Rumania--Collembola)

RADU, Vasile Gh.; ROGOJANU, Victor; GRECEA, Alexandrina; DAN , Florica
SIMIONESCU, Ion.

Action of ecologic elements on soil fauna dynamics. Studii biol Cluj 13 no.2:231-258 '62.

1. Membru corespondent al Academiei R.P.R. (for Radu).
2. Academia R.P.R.-Filiala Cluj, Centrul de cercetari biologice.

RADU, Vasile, Gh.; GRECEA, Alezandrina

Contributions to the study of Coleoptera larvae in the soil. Pt. 1. Studii biol Cluj 14 no.1:81-87 '63.

1. Center of Biological Research, Rumanian Academy, Cluj Branch. 2. Corresponding Member of the Rumanian Academy (for Radu).

RUMANIA / Microbiology. Microorganisms Pathogenic to Humans and Animals. F-5

Abs Jour : Ref Zhur - Biol., No 20, 1958, No. 90964

Author : Ungureanu, C.; Grocoanu, Al.
Inst : Not given
Title : Study of a Strain of Clostridium hystoliticum Isolated from a Sheep Suffering from Edema of the Head

Orig Pub : Probl. epizootol. si microbiol., 1956, 4, 12-21 (Rum.)

Abstract : Cl. hystoliticum and Cl. oedematis maligni were isolated from the transudate of a one year old sheep. Intramuscular injection of an 18-hour broth culture of Cl. hystoliticum into guinea pigs in doses of 1, 0.5, and 0.1 ml killed the animals in 24 - 28 hours. Subcutaneous injections of a broth culture in the forehead region of sheep produced in them a characteristic picture of edema of the head. The administration of antigangrene polyvalent

Card 1/2

GRECEANU, A.

Studies and contributions relative to standardization of safety glass. p.4

ZAREA, Bucuresti, Vol 8, No. 3, Mar., 1956

SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July, 1956

GRECEANU, Alexandru E., ing. (Bucuresti)

The Electrotehnica Enterprise, an achievement of People's Democracy. Electrotehnica 9 no.5:150-151 My '61.

1. Inginer sef la intreprinderea "Electrotehnica", Bucuresti.

[redacted] GRECEANU, E.

RUMANIA/Cultivated Plants. Cereals. X

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77574.

Author : Iasagi A.; Balas, V.; Cretan, I.; Ceteanu, I.; Dumitrescu, M.; Miclea, C.; Pop, O.; Ilie, D.; Siclovan, V.; Gradinaru, N.; Timaru, A.; Stanescu, Z.; Enescu, S.; Zoldea, E.; Greceanu, E.

Inst :

Title : On the Problem ofDividing Varieties of Winter Wheat and of Winter and Spring Barley and Oats into Districts.

Orig Pub: An Inst. cercetari agron., 1957, 24, No 5, 213-279.

Abstract: Results of a comparative study at experimental stations of the Scientific-Research Agronomy Institute of varieties divided into districts and those newly obtained for 1949-1952. In regard to winter

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wheat, good results were shown of the variety divided into districts "Chenad" 117 and the new varieties "Tyrgu Frumos" 16, divided into the steppe and forest-steppe regions of Moldavia, and "Deregan" 77. In the forest zones of both slopes of the Carpathian and Western Mountains (Muntsiy Apusen') the variety "Chenad" 117 prevailed. In the steppe and forest-steppe regions of the western part of Olteniye, Banat and the central part of Transylvania - "Ovidiu" 241, divided into districts in Deregan. As regards a barley variety, "Chenad" 395 is the most early maturing and frost resistant, is divided into all zones of cultivation of winter barley. As regards

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spring barley, the best variety - "Tyrgu Frumos" 240, is divided into districts in the steppe and forest-steppe regions of Moldavia, Dobrudzha, Munteniye and Olteniye, and "Dann Kargin", which is divided into districts in all regions of Transylvania and Banat and in the forest zone of Moldavia. As regards oats, the best variety - "Tyrgu Frumos" 9, is divided into districts in the steppe and forest-steppe regions of Moldavia, in Dobrudzha, Munteniye and Olteniye, and IYAR 878, which is divided into districts in the central part of Transylvania. -- A. F. Khlystova.

Card : 3/3

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M

: Rumania
: Cultivated Plants. Grains. Leguminous Grains. Tropical Cereals.
: Ref Zhur -Biologiya, No. 4, 1959, No. 15598

: Greseanu, Elena
: Com. Acad. RPR.
: Quality Research on Promising Districted Barley Varieties.

: Comun. acad. RPR, 1957, 7, No.3, 377-381

: Data for 1953-1955 on grain quality testing of winter barley variety Chenad 396,343,344,345 and bifarious barley Cluj 127, Târgul- Frumos, Hanna-Kargin and Kagurele. Winter barley and bifarious differ negligibly in grain quality. The specific weight fluctuates around 60 kg/gl, while the weight of 1000 grains is 35 to 38 grams protein content 13.5 to 14 % and starch content 53 to 57 %.

CARD : 1/1

GRECEANU, I.; ILIAN, A.

Biological aspects of the relations between Penicillium chloroleucon Biourge 286 and Bacillus paracoli in combined culture. Stud. cercet. inframicrobiol., Bucur. 6 no.1-2:257-276 Jan-June 55.

(PARACOLOBACTRUM
coliforme, relation to Penicillium chloroleucon Biourge 286 in combined cultures)
(PENICILLIUM
chloroleucon Biourge 286, relation to Paracolobactrum coliforme in combined cultures)

H

RUMANIA/Chemical Technology. Chemical Products and Their Application, Part 3. - Drugs. Vitamins. Antibiotics.

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 71746.

Author : I. Greceanu.
Inst :
Title : Upon the Utilization of Water, in which Maize Has Been Steeped, for Antibiotic Production.

Orig Pub: Farmacia (Romin.), 1956, 4, No 2, 117-124.

Abstract: No abstract.

Card : 1/1

GRECEANU, I.

Cornsteep, an indigenous raw material for the production of antibiotics.
Rumanian M. Rev. 1 no.2:95 Apr-June 57.

(ANTIBIOTICS, prep. of
addition of maize extracts to culture media)

(CORN, extracts
addition to culture media in prep. of antibiotics)

GRECEANU, I.; RAFIROIU, I.; BIANU, S.

The technique of preparing disks with antibiotics and of utilizing them for the preparation of antibiograms.

P. 339 (REVISTA DE CHIMIE) (Bucuresti, Rumania) Vol. 8, no. 5. May 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, no. 5. 1958

RUMANIA/Chemical Technology - Chemical Products and Their Applications - Drugs, Vitamins, Antibiotics. H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37202

Author : Miss, A., Greceanu, I., Andronic, I., Ilian A, Schreiber, H.

Inst : -

Title : New Type of Procaine-Penicillin for Injections.

Orig Pub : Rev Chim, 1957, 8, No 5, 343-344

Abstract : A new type of procaine-penicillin for injections was obtained by means of introduction of procaine solution into a flask filled with the ready-for-use penicillin. Control methods for determination of toxicity and sterility have been established.

Card 1/1

BEROPIAN, E., dr.; GRECEANU, I., dr.

Contributions to the study of the diagnosis of allergic rhinitis.
Med. intern., Bucur 12 no.7:1085-1092 Jl '60.
(HAY FEVER, diagnosis)

SEROPIAN, E., dr.; GRECEANU, I., dr.

The value of cutaneous tests in allergological investigations. Med. intern., Bucur 13 no.2:249-257 F '61.

1. Lucrare efectuata in Clinica medicala Spitalul "Fundeni", directorul clinicii conf. C. Paunescu.

(ALLERGY diagnosis) (SKIN pharmacology)

RADU, Vasile Gh.; ROGOJANU, Victor; GRECEA, Alexandrina; TENT-DAN, Florica

Dynamics of soil coleopteral larvae depending upon the nature of soil and vegetation. Studii cerc biol anim 14 no.1:65-78 '62.

1. Membru corespondent al Academiei R.P.R., si membru al Comitetului de redactie, "Studii si cercetari de biologie; Seria biologie animala (for Radu).

SEROPIAN, E., dr., candidat in stiinte medicale; GRECEANU, I., dr.
BELOIU, D., dr. (Bucuresti)

Criteria for evaluation of diagnostic methods for determining the etiology of some respiratory allergies. Med. intern. (Bucur.) 16 no.12:1465-1470 D '64

1. Lucrare efectuata in Serviciul de boli alergice, spitalul "Dr.C.Davilla".

SEROPIAN, E., dr.; BELOIU, D., dr.; GRECEANU, I., dr.

Exo-allergy to a posterior pituitary hormone preparation in cases of diabetes insipidus. Med. intern. (Bucur.) 16 no.12: 1489-1492 D '64

1. Lucrare efectuata in Serviciul de boli alergice, Spitalul "Dr.C.Davilla", Bucuresti.

SEROPIAN, E.; GRECEANU, I.; BELOIU, D.

Criteria for appraising the value of diagnostic methods used for determining the etiology of respiratory allergoses. Rumanian med. rev. 19 no.3:29-33 Jl-S '65.

GRECEANU, Mihaela, chim. (Bucuresti); ANTOHI, Constatin, ing. (Bucuresti); MARCUS, Bruno (Bucuresti)

Technology of glassy enamel-covered coil resistances. Electrotehnica 11 no.2:73-76 F '63.

1. Cercetator principal la Institutul de Cercetari Electrotehnice (for Greceanu). 2. Inginer principal la Institutul de Cercetari Electrotehnice (for Antohi). 3. Sef de laborator de Cercetari Electrotehnice (for Marcus).

GRECENKO, A.

Potential characteristics, basis for designing and evaluating tractors. p. 1. SBORNID. RADA MECHANISACE A ELEDTRIFIKACE ZEMEDELSTAVI A LESNICTVE. Praha. Vol. 28, no. 1, Apr. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, No. 7, July 1956.

GRECENKO, A.

Examination of wheel tractors according to traction characteristics.

P. 145,(Sbornik Rada Mechanisace A Elektrifikace Zemedelstvi) Vol.30, no.3, June 1957
Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

GRECENKO, ALEXANDR.

"Zakłady teorie a vypoctu traktoru. [Vyd. 1.] Praha, Statni pedagogicke nakl., 1958. 303 p. (Ucebni texty vysokych skol) [Principles of theory and calculations concerning tractors; a university textbook, 1st ed. bibl., diagrs., graphs, tables]"

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 7, July 1958

GRECENKO, A.

AGRICULTURE

PERIODICALS SBORNIK, RADA MECHANISACE A ELEKTRIFIKACE ZEMEDELSTVI.
VOL. 31, no. 3/4, Aug. 1958

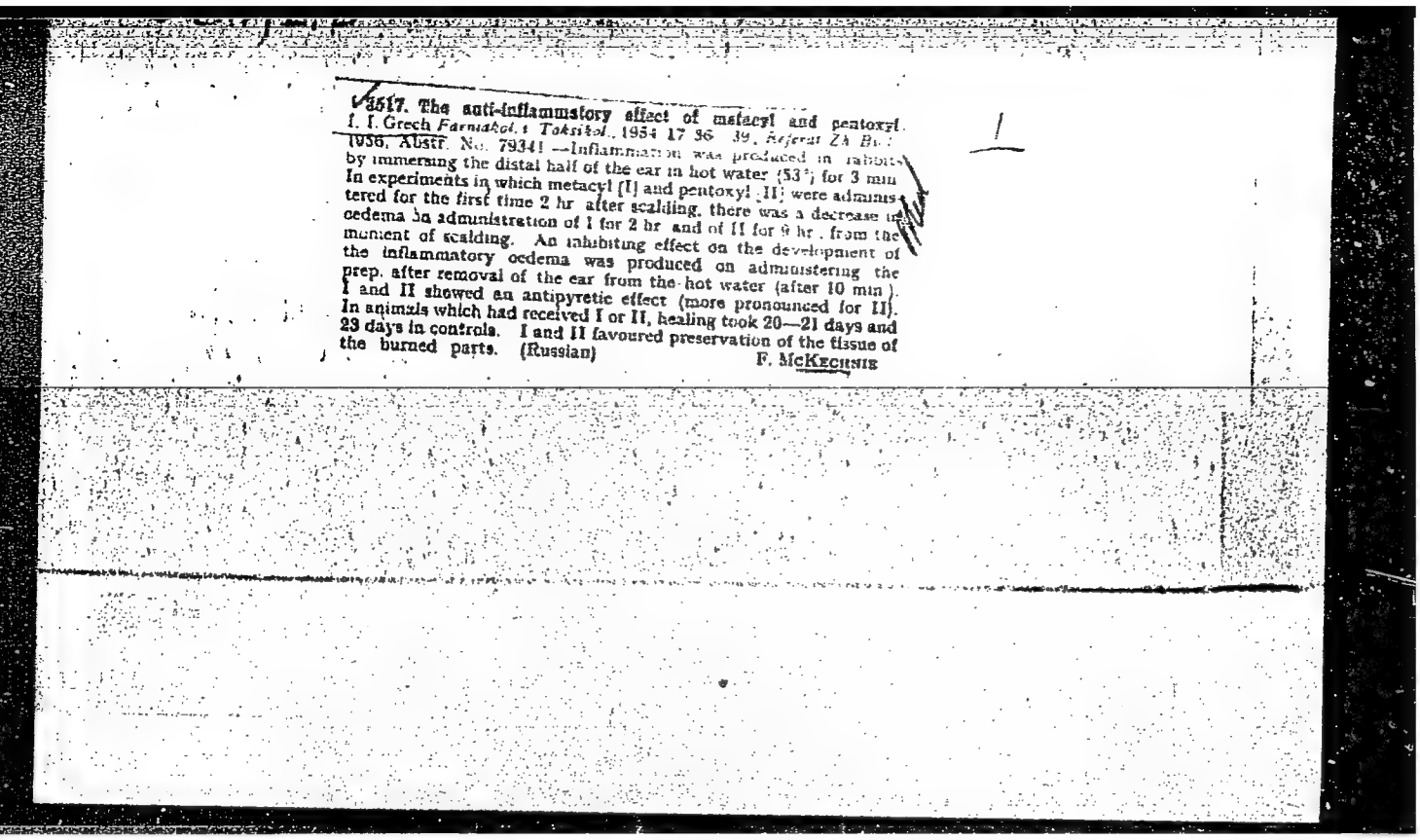
Grecenko, A. Relations between the design parameters of wheeled tractors and their traction efficiency. p. 175.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 5, May 1959, Unclass.

LEIBOVICI, I.; GRECESCU, M.

On the principle of ionometrical methods in gamma and roentgen radiation metrology. Studii cerc fiz 14 no.1: 99-112 '63.

1. Institutul de fizica atomica Bucuresti.



3517. The anti-inflammatory effect of metacyl and pentoxyl. I. I. Grech *Farmakol. i Toksikol.*, 1954, 17, 36—39. *Referat. Zh. Biol.*, 1956, Abstr. No. 79341.—Inflammation was produced in rabbits by immersing the distal half of the ear in hot water (53°) for 3 min. In experiments in which metacyl (I) and pentoxyl (II) were administered for the first time 2 hr. after scalding, there was a decrease in oedema on administration of I for 2 hr. and of II for 9 hr. from the moment of scalding. An inhibiting effect on the development of the inflammatory oedema was produced on administering the prep. after removal of the ear from the hot water (after 10 min.). I and II showed an antipyretic effect (more pronounced for II). In animals which had received I or II, healing took 20—21 days and 23 days in controls. I and II favoured preservation of the tissue of the burned parts. (Russian)

F. McKechnie

GRECH, V.I., inzh.; KOZLACHKOVA, N.E., inzh.; SEMTANICH, V.S., inzh.

Conference of young hydraulic engineers of the All-Union Trust for the Designing and Planning of Hydroelectric Power Plants. Gidr.stroi.31 no.2:62-63 F '61. (MIRA 14:3)
(Hydroelectric power station)

M-6

COUNTRY : USSR
CATEGORY :

ABS. JOUR. : RZBiol., No. 19, 1958, No. 87109

AUTHOR : Molostov, A. S.; Greckanenko, A. Ya.
INST. : Zhitomir Agricultural Institute
TITLE : Experimental Production of Lupine Seed in Close-Row and Wide-Row Plantings with Application of Organomineral and Mineral *

ORIG. PUB. : Nauchn. tr. Zhitomirsk. s.-kh. in-t, 1957, 4, 99-105

ABSTRACT : Experiments on production of seed of Blue Lupine 148 (Lupinus angustifolius) and of White Seed Feed Lupine (Lupinus luteus) were conducted in the Zhitomirskaya Oblast', at the collective farm "Pamyati V. I. Lenina" and the experiment station of the agricultural institute. Higher yields of seed were obtained with close row planting, 15 cm apart, at sowing rate: Blue Lupine 140-160 kg/hectare, White Seed Lupine 140 kg/hectare. The absolute weight and yield of seed per single plant were higher in wide-row plantings. The most effective fertilizers were found to be powdered P_s and high-percentage potassium salt (60 kg/hectare of active ingredient) with

CARD: 1/2

* Fertilizers (Short Communication).

Country : USSR
CATEGORY :

ABS. JOUR. : RZBiol., No. 19, 1958, No. 87109

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : shredded peat, in a proportion of 4-5 parts by weight per 1 part by weight of mineral fertilizer.

A. A. Shchibrya.

CARD: 2/2

USSR / Cultivated Plants. Fodder Grasses and Edible Roots. M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24933

Author : Grechanenko, A. Ya.
Inst : Zhitomir Agricultural Institute
Title : On the Problem of Lowering the Alkaloid Content in Slightly Alkaloid Fodder Lupine

Orig Pub : Nauchn. tr. Zhitomirsk. s.-kh. in-t, 1957, No 4, 107-109

Abstract : Results of the experiments in 1951-1954. It was established that seeds of the marble dye, produced by plants with flowers of anthocyan color, are alkaloidal. The genesis of alkaloidal seeds is explained by the rarefaction of the plants growing in wide rows with the possibility of cross

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USSR / Cultivated Plants. Fodder Grasses and Edible Roots. M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24933

pollination. It is recommended to cultivate fodder lupine in each separate farm of only one variety; in the period of budding, to pollinate carefully the plants with the flowers of the anthocyan coloring. --
N. G. Bul

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GRECHANENKO, A. Ya.: Master Agric Sci (diss) -- "The harvest and quality of lupine seed as a function of methods of growing them under the conditions of the Poles'ye". Zhitomir, 1958. 24 pp (Min Agric Ukr SSR, Ukr Acad Agric Sci), 120 copies (KL, No 6, 1959, 138)

ACCESSION NR: AP4042865 S/0114/64/000/007/0041/0045

AUTHOR: Levina, M. Ye. (Candidate of technical sciences, Docent); Romanenko, P. A. (Candidate of technical sciences); Grechanichenko, Yu. V. (Engineer)

TITLE: Calculation of the distribution of stream parameters in a turbine stage with an allowance for radial acceleration

SOURCE: Energomashinostroyeniye, no. 7, 1964, 41-45

TOPIC TAGS: turbine, turbine blade, turbine stage, turbine engine

ABSTRACT: The article is a further development of P. A. Romanenko's earlier work (Izv. AN SSSR. Energetika i avtomatika, 1959, no. 6). A method is set forth for calculating the distribution of cylindrical-stream parameters in a turbine stage with an allowance for the region occupied by the rotor blades and the ring space beyond these blades. Three variants of the stages of an experimental

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ACCESSION NR: AP4042865

air turbine were calculated by the above method with a view toward investigating the effect of the movable-blade twist on the flow beyond the nozzle row. The blade length, 81.5 mm, and outside diameter, 500 mm, were kept constant; the twist pattern and nozzle-diaphragm width were varied. The latter parameter was found to have the strongest influence on the stream distribution. Orig. art. has: 5 figures and 27 formulas.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut im. V. I. Lenina (Khar'kov Polytechnic Institute)

SUBMITTED: 00 ENCL: 00

SUB CODE: PR NO REF SOV: 006 OTHER: 001

Card 2/2

ACC NR: AT7003562 (N) SOURCE CODE: UR/3240/66/000/001/0054/0059

AUTHORS: Grechanichenko, Yu. V.; Levina, M. Ye.

ORG: Kharkov Polytechnic Institute (Khar'kovskiy politekhnicheskiy institut)

TITLE: Calculation of the three-dimensional double-parameter flow in a stage with arbitrary meridianal boundaries

SOURCE: Kharkov. Politekhnicheskiy institut. Energeticheskoye mashinostroyeniye, no. 1, 1966. Teploobmen i gazodinamika (Heat transfer and gas dynamics) 54-59

TOPIC TAGS: gas turbine, turbine stage, compressible fluid, uniform flow, fluid flow, axisymmetric flow/ KhTGZ K-300-240 gas turbine

ABSTRACT: The development and techniques of a previous work by M. Ye. Levina, P. A. Romanenko, and V. I. Grechanichenko (Raschet raspredeleniya parametrov potoka v turbinnoy stupeni s tsilindricheskimi granitsami. Zh. Energomashinostroyeniye, 1964, No. 8) are generalized for calculating the parameters of a compressible fluid, with variable parameters at the input of a turbine stage with noncylindrical profile. The previous assumptions of a uniform helical flow in the gap and of a parabolic dependence of C_r with radius are dispensed with. The subcritical flow of a fluid in a turbine stage, assuming axially symmetric flow, is described by the Euler equation projected on the r axis

$$\frac{1}{\rho}\frac{\partial p}{\partial r} = \frac{C_\theta^2}{r} - C_r\frac{\partial C_r}{\partial r} - C_z\frac{\partial C_r}{\partial z}.$$

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ACC NR: AT7003562

the energy equation

$$C_{p0}T_0^* = \frac{k}{k-1}\frac{p}{\rho} + \frac{C^2}{2} + uC_u + uC_{u0}.$$

the process equation

$$\frac{p}{\rho^k} = \text{const.}$$

the continuity equation in differential form

$$\frac{\partial}{\partial r}[\rho(r-\tau)C_r] + \frac{\partial}{\partial z}[\rho(r-\tau)C_z] = 0.$$

where τ is the total blade thickness in the circumferential direction, and by the kinematic relation between the velocity projections

$$C_u = C_z \operatorname{ctg}\beta + u = C_z \operatorname{ctg}\alpha .$$

The velocity components are expressed as partial derivatives of a function which is found in the form of a series. Calculations were carried out for a stage with the geometrical characteristics of the last stage of turbine KhTGZ K-300-240. The calculated meridional flow lines and the distribution of velocity components and pressure along the radius are shown graphically. Orig. art. has: 15 equations and 4 diagrams.

SUB CODE: 21, 20/ SUBM DATE: none/ ORIG REF: 006

Card 2/2

GRECHANIK, L. A.

"Effect of Small Additions of Certain Compounds on the Properties of Glass." Sub 24 Dec 51, Moscow Order of the Lenin Chemicotechnological Inst imeni D. I. Mendeleyev

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

GRECHANIK, L.A.

USSR /Chemical Technology. Chemical Products and Their Application I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31497

Author : Matveyev M.A., Koyfman I.S., Grechanik L.A.

Title : Vibratory Comminution of Sand and Its Use in the Making of Borosilicate Glass

Orig Pub: Steklo i keramika, 1956, No 11, 3-9.

Abstract: Grinding of sand (S) was effected in M-10 and M-200 vibratory mills. Degree of dispersion of S was evaluated on the basis of screen analysis data and specific surface values. It was found that most effective is grinding of S during the first 1,5 hours, when a specific surface of 3300 cm^2/g is attained with a residue on the

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screen of 10000 apertures/cm^2 (5%). Comparative study of vibratory grinding using different grinding bodies has shown that greatest output capacity of the mill is attained with steel balls, which are most wear-resistant but cause contamination of the S with metallic Fe. Milling with porcelain and glass balls decreases the output by 2-3 times. Use was also made of glass balls manufactured at the same plant; cost of the balls expended in vibratory comminution of 1 ton of sand is 2 times less than that of porcelain balls. For glass in which a Fe_2O_3 content of more than 0.1% is permissible, milling of S

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Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31497

can be carried out in a housing without an internal rubber lining, which is of great practical importance since the life of the lining does not exceed 150 hours of operation. To reduce dust formation and improve mixing of the batch it is advantageous to humidify the sand 5 minutes prior to termination of the mixing. Early moistening of the S impairs the degree of comminution. Output of a continuous operation unit, with a feed of the aero-mixture under the milling bodies, is 1.7 times higher than that of an intermittent operation mill, yielding a product of the same degree of dispersion. Most

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advantageous is a grinding of S to a specific surface of 2000 cm^2/g, which is attained in a M-200 mill within 1 hour.

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OMICHANIK, L.A.

Effect of Me_2O and Al_2O_3 oxides on the electric conductivity of glass and its dependence on the composition. Zhur. prikh. khim. 31 no.8: 1164-1170 Ag '58. (MIRA 11:10)

1.TSentral'naya nauchno-issledovatel'skaya laboratoriya elektrotekhnicheskogo stekla.
(Glass--Electric properties)

GRECHANIK, L. A.

15(2)
AUTHOR: None Given SOV/72-59-5-1/23

TITLE: Glass Science at the VIII Mendeleyev Congress (Nauka o stekle na VIII Mendeleyevskom s"yezde)

PERIODICAL: Steklo i keramika, 1959, Nr 5, pp 1-4 (USSR)

ABSTRACT: In the beginning a proclamation of the TsK KPSS to the personnel of the building material industries for a qualitative and quantitative increase of production is mentioned. The Congress took place in Moscow in the second half of March of the current year and was devoted to the 125th anniversary of the great scholar's birthday. Outstanding chemists of the Soviet Union and the People's Democracies attended the Congress. The principal problems of the development of chemistry were discussed at the plenary meetings and the meetings of the 18 Congress sections. Professor I. I. Kitaygorodskiy opened the meetings of the sub-section for glass and gave a survey of the stages of development of Soviet glass production as well as of a number of promising tasks in the field of glass technology. Moreover, the following lectures were held: Doctor Korani (People's Republic of Hungary) investigated the structure of the top-layers of glass;

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A. I. Avgustinnik (LTI imeni Lensovet) discussed the formation of a finely disperse crystalline phase from the glass-like phase; V. V. Vargin and G. O. Karapetyan (GOI) reported on absorption spectra, luminiscence, and photochemical properties of cerium-glass types; A. G. Vlasov (GOI) reported on the quantitative reciprocal relations between ordered and disordered glass phases; Ye. A. Poray-Koshits, Institut khimii silikatov AN SSSR (Institute of Silicate Chemistry of the AS USSR) discussed the reasons for the disagreement on the problem of the structure of glass-like substances; Professor O. K. Botvinkin, N. I. Ananich, and M. L. Mironova, Institut stekla (Glass Institute) reported on the Investigation of the Glass Structure by the Method of Thermal Analysis and Optical Polarisation; Ye. V. Podushko (GOI) discussed the new method of electric glass melting and the melting of silicates by means of high-frequency current; Yu. G. Shteynberg reported on strontium-magnesium glazes without lead and boron for faience and majolica which have been developed in the Gosudarstvennyy nauchno-issledovatel'skiy keramicheskiy institut (State Scientific Research Institute of Ceramics); L. S. Yastrebova, and V. S. Molchanov (GOI) discussed the role played by the

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surface protection film in the destruction of silicate glasses; G. I. Veynberg (GOI) discussed the coloring characteristics and the technology of phosphate glasses; O. V. Mazurin (LTI) reported on the mobility of sodium ions in glass types of the system Na_2O-RO-SiO_2; Z. A. Nosova (NII Stroykeramika) discussed the process of subduing the glazes by lead oxide and zirconium; L. G. Mel'nichenko, Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnic Institute) reported on silicate formation and sintering processes in the briquetted glass layer; K. M. Yevstrop'yev investigated various types of glass; N. N. Semenov (Glass Institute) reported on the determination of impurities in silica by spectroscopic analysis; G. S. Bogdanova, and Ye. M. Orlova (Glass Institute) reported on types of electrode glass which has been devised by them. Yu. V. Rogozhin (Glass Institute) discussed the kinetics of the formation of crystallization centers in photo-sensitive types of glass; Z. M. Syritskaya (Glass Institute) discussed the results of the investigation of the tendency of phosphatic systems towards glass formation; L. A. Grechanik, N. V. Petrovykh, and V. G. Karpechenko (NIIES) reported on the investigation of types of semiconducting oxide glass on the basis of V_2O_5; N. V. Solomin, L. A. Grechanik, I. V. Shpakova, and Ye. A. Faynberg (NIIES) discussed the production of conductive films on types of glass which contain components easily to be regenerated.

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9.4300 (1035, 1138, 1143)

AUTHORS: Grechanik, L. A., Petrovykh, N. V., Karpechenko, V. G.

TITLE: Synthesis and Investigation of Vitreous Oxide Semiconductors in Systems of the Type $VO_{2.5}$ - $PO_{2.5}$ - RO_x

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 9, pp. 2131 - 2139

TEXT: On the basis of published data, part of which are given in Table 1, the authors drew the conclusion that in the case of a complex composition, more stable glasses with different semiconducting properties are obtained. In the system $VO_{2.5}$ - $PO_{2.5}$, where $VO_{2.5}$ > 50%, $PO_{2.5}$ = 0 - 50%, they substituted part of the $VO_{2.5}$ by 0 - 50% RO_x ($LiO_{0.5}$, $NaO_{0.5}$, $KO_{0.5}$, $CsO_{0.5}$, CuO, $AgO_{0.5}$, BeO, MgO, CaO, SrO, BaO, ZnO, CdO, HgO, $LaO_{1.5}$, CeO_2, $BO_{1.5}$, $AlO_{1.5}$, TiO_2, ZrO_2, SiO_2, GeO_2, SnO_2, PbO, $AsO_{1.5}$, $SbO_{1.5}$, $BiO_{1.5}$, $CrO_{1.5}$, WO_3, SeO_2, MnO_2, $FeO_{1.5}$, CoO, NiO, UO_3). For the ternary systems, the regions of glass formation are given in Fig. 1. Glasses

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Synthesis and Investigation of Vitreous Oxide Semiconductors in Systems of the Type $VO_{2.5}$ - $PO_{2.5}$ - RO_x

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with $PO_{2.5}$ = 20% and an RO_x content of 10, 20, and 30% were examined as to their technical properties. They all melted at low temperatures (800-1200°C), had a low viscosity, tended toward crystallization, and hardened quickly. An addition of $AsO_{1.5}$, WO_3, $SbO_{1.5}$ improved their properties. The coefficient of expansion was $(60 - 150)\cdot10^{-7}$ deg^{-1}, the softening temperature was between 250 and 350°C, the elastic modulus was $(3.9 - 5.4)\cdot10^{5}$ kg/cm^2. The glasses that were non-tranparent in visible light were transparent to infrared within the region of 2 - 5 μ with a maximum at 4 μ (Fig. 2). Measurements were carried out by means of an MKC-14 (IKS-14) spectrograph. The electrical conductivity σ was measured by means of an MTB (MTV) measuring bridge in the region of 20 - 250°C. As shown by Fig. 3, the equation $\sigma = \sigma_0 \exp(-\Delta E/2kT)$ holds, no break occurring such as is caused by impurities in crystalline semiconductors. With increasing RO_x content, σ decreases according to the equation $\sigma = \sigma_{init}\exp(-k_1 C_{RO_x})$ (1) (Fig. 4). The extrapolation of the straight

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